

## APPENDIX II

### CLEAN VERSION OF THE ENTIRE SET OF PENDING CLAIMS AS AMENDED IN THIS COMMUNICATION

1.A method, comprising:

- a) providing:
  - i) uridine-5'-diphosphoglucose;
  - ii) sulfite;
  - iii) a first peptide encoded by the nucleic acid sequence set forth in SEQ ID NO: 6; and
  - iv) a second peptide encoded by a nucleic acid selected from the group consisting of SEQ ID NO:1 and SEQ ID NO:3;
- b) reacting said uridine-5'-diphosphoglucose with said first peptide and said sulfite under such conditions that uridine-5'-diphosphosulfoquinovose is generated; and
- c) treating said uridine-5'-diphosphosulfoquinovose with said second peptide under conditions such that sulfoquinovose diacylglycerol is generated.

13. A method, comprising:

- a) providing:
  - i) uridine-5'-diphosphoglucose;
  - ii) sulfite; and
  - iii) a peptide encoded by the nucleic acid sequence set forth in SEQ ID NO: 6; and
- b) reacting said uridine-5'-diphosphoglucose with said peptide and said sulfite under such conditions that uridine-5'-diphosphosulfoquinovose is generated.

15. A method, comprising:

a) providing:

- i) uridine-5'-diphosphoglucose;
- ii) sulfite;
- iii) the nucleic acid sequence set forth in SEQ ID NO: 6; and
- iv) a host cell;

b) transfecting said host cell with said nucleic acid under conditions such that a peptide is expressed; and

c) reacting uridine-5'-diphosphoglucose with said peptide and said sulfite under conditions such that uridine-5'-diphosphosulfoquinovose is produced.

16. A method, comprising:

a) providing:

- i) uridine-5'-diphosphosulfoquinovose;
- ii) diacylglycerol;
- iii) a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 and SEQ ID NO:3; and
- iv) a host cell

b) transfecting said host cell with said nucleic acid under conditions such that a peptide is expressed; and

c) reacting uridine-5'-diphosphosulfoquinovose with said peptide and said diacylglycerol under conditions such that sulfoquinovosyl diacylglycerol produced.